Hydrology Investigation
Data Work Sheet

School name: _____

Student group: _____

Site Name: _____

Sample collection date: _____ time: _____ (hours and minutes) check one: UT___ Local ___

Transparency

Cloud cover (check one): ____ clear ____ scattered ____ broken ____ overcast

Secchi Disk:
Observer 1: Length of rope: when disk disappears: _____ m   when disk reappears: _____ m

Distance from where the Observer 1 marked the rope to the Water Surface: _____ m

Observer 2: Length of rope: when disk disappears: _____ m   when disk reappears: _____ m

Distance from where the Observer 2 marked the rope to the Water Surface: _____ m

Observer 3: Length of rope: when disk disappears: _____ m   when disk reappears: _____ m

Distance from where the Observer 3 marked the rope to the Water Surface: _____ m

Turbidity Tube:
Water line in tube when image disappears:

Observer 1: _____ cm   Observer 2: _____ cm   Observer 3: _____ cm

Water Temperature

Observer 1: _____ °C   Observer 2: _____ °C   Observer 3: _____ °C   Average: _____°C

Dissolved Oxygen

Observer 1: _____ mg/L Observer 2: _____ mg/L Observer 3: _____ mg/L Average: _____mg/L

Kit manufacturer and model:_____

pH

Measurement method: _____paper _____pen _____ meter

Value of buffers at site: pH 4: _____ pH 7: _____ pH 10: _____

Observer 1: _____   Observer 2: _____   Observer 3: _____   Average: _____

Conductivity

Conductivity Standard: _____ MicroSiemens/cm (µS/cm)

Observer 1: _____ µS/cm Observer 2: _____ µS/cm Observer 3: _____ µS/cm Average: _____ µS/cm

Data Work Sheet (page 2)

Salinity

Tide Information
Time of tide before measurement: _____ hours and minutes

Check one: High Tide ____ Low Tide____   Check one: UT _____ Local time_____

Time of tide after measurement: _____ hours and minutes

Check one: High Tide ____ Low Tide____   Check one: UT _____ Local time_____

Place where these tides occur: _____

Salinity (Hydrometer Method)

	Observer 1	Observer 2	Observer 3
Temperature of water in the cylinder:	_____ °C	_____ °C	_____ °C
Specific Gravity:	_____	_____	_____
Salinity of Sample:	_____ ppt	_____ ppt	_____ ppt

Average Salinity: _____ ppt

Optional Salinity Titration
Salinity of Sample: Observer 1: _____ ppt   Observer 2: _____ ppt   Observer 3: _____ ppt

Average Salinity: _____ ppt

Kit manufacturer and model:_____

Alkalinity

For kits that read alkalinity directly

Observer 1: _____ mg/L as $CaCO_3$ Observer 2: _____ mg/L as $CaCO_3$ Observer 3: _____ mg/L as $CaCO_3$
Average: _____ mg/L as $CaCO_3$

Hach kits or other kits in which drops are counted:

	Observer 1	Observer 2	Observer 3	Average
Number of drops	_____drops	_____ drops	_____drops	_____ drops
Conversion constant for your kit and protocol:	x_____	x_____	x_____	x_____
Total Alkalinity (mg/L as $CaCO_3$)	=_____mg/L	=_____ mg/L	=_____mg/L	=_____ mg/L

Kit manufacturer and model:_____

Nitrate

Observer 1: _____ mg/L NO_3^- - N + NO_2^- - N   _____ mg/L NO_2^- - N
Observer 2: _____ mg/L NO_3^- - N + NO_2^- - N   _____ mg/L NO_2^- - N
Observer 3: _____ mg/L NO_3^- - N + NO_2^- - N   _____ mg/L NO_2^- - N
Average: _____ mg/L NO_3^- - N + NO_2^- - N   _____ mg/L NO_2^- - N

Kit manufacturer and model:_____